Interpreting Velocity-Time Graphs.pdf - Adobe Reader

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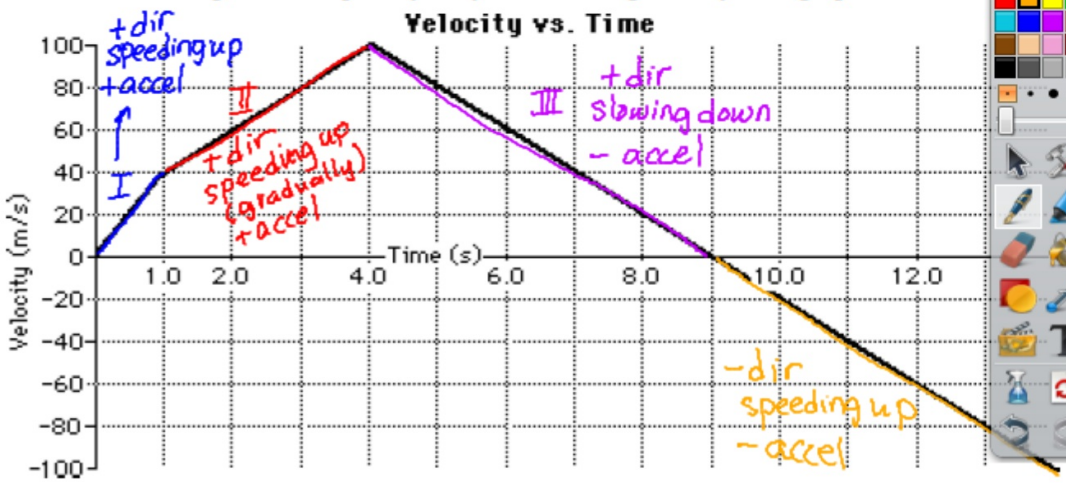
## Interpreting Velocity-Time Graphs

The motion of a two-stage rocket is portrayed by the following velocity-time graph.



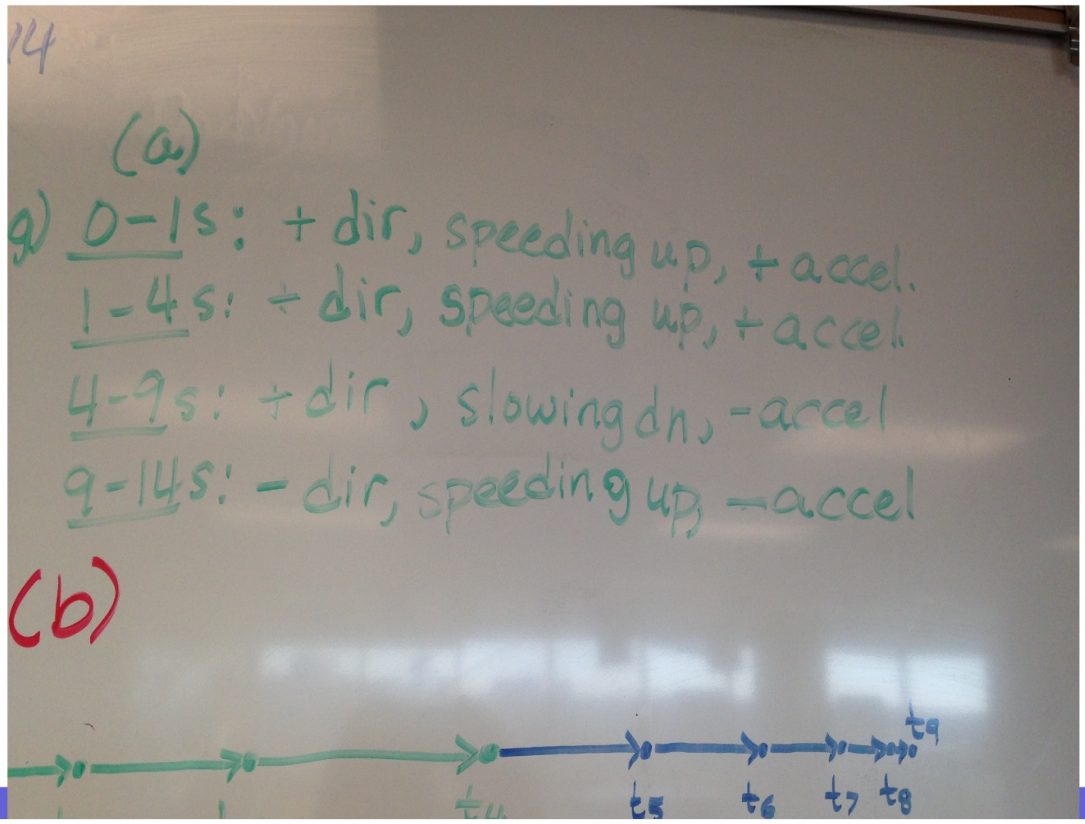

Several students analyze the graph and make the following statements. Indicate whether the statements are correct or incorrect. Justify your answers by referring to specific features about the graph.

| Student Statement | Correct? Yes or No |
|---|---|

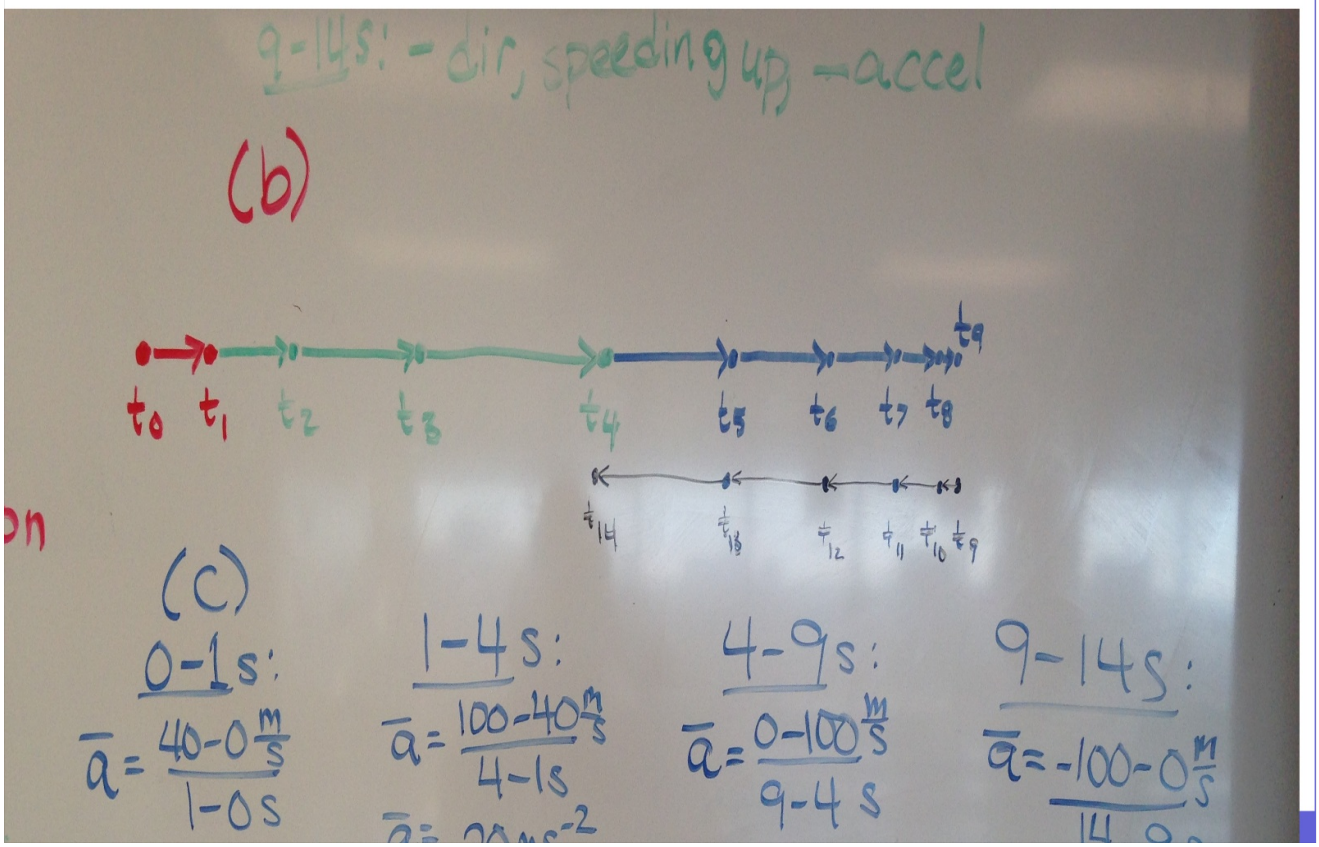
8.50 x 11.00 in

11:54 AM

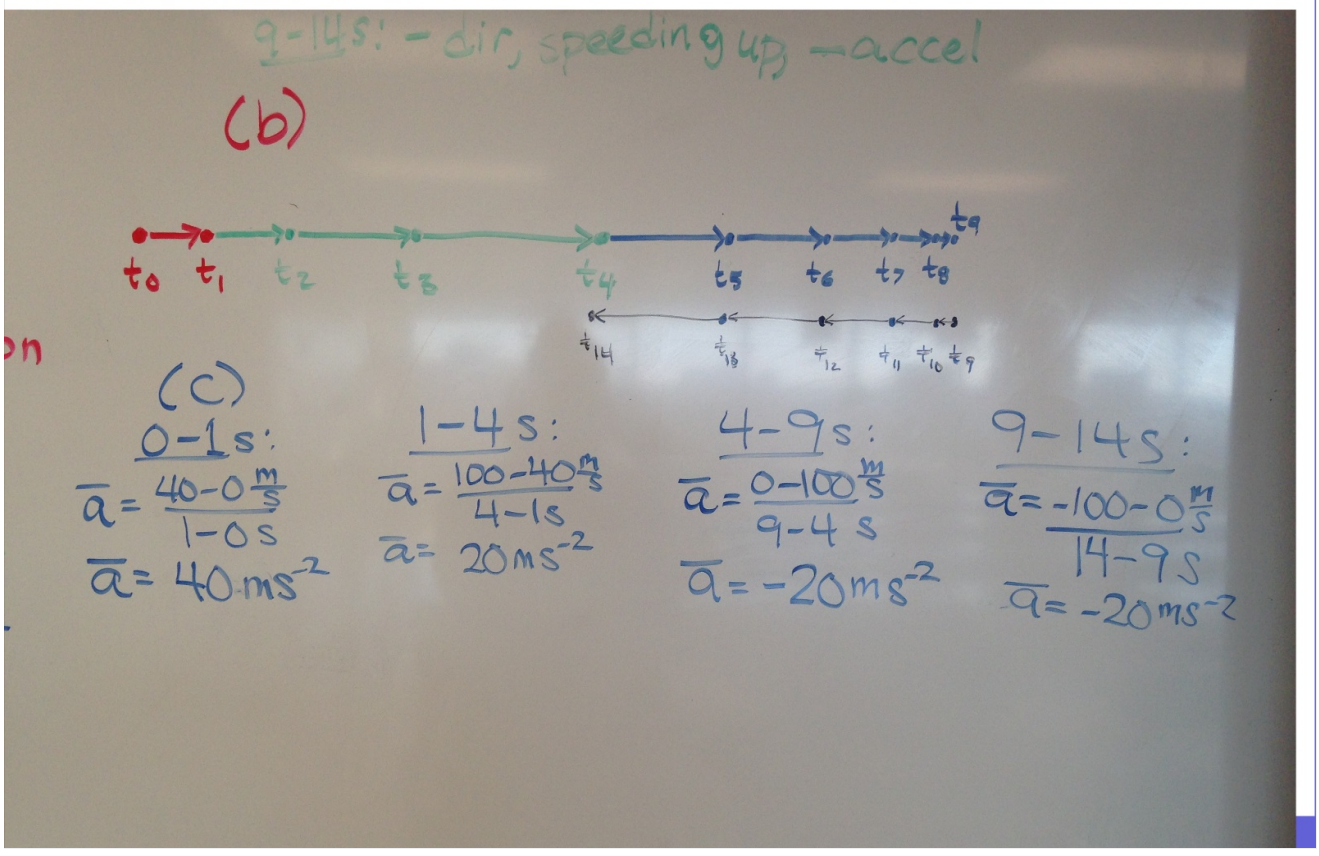
(a) Written description of motion:



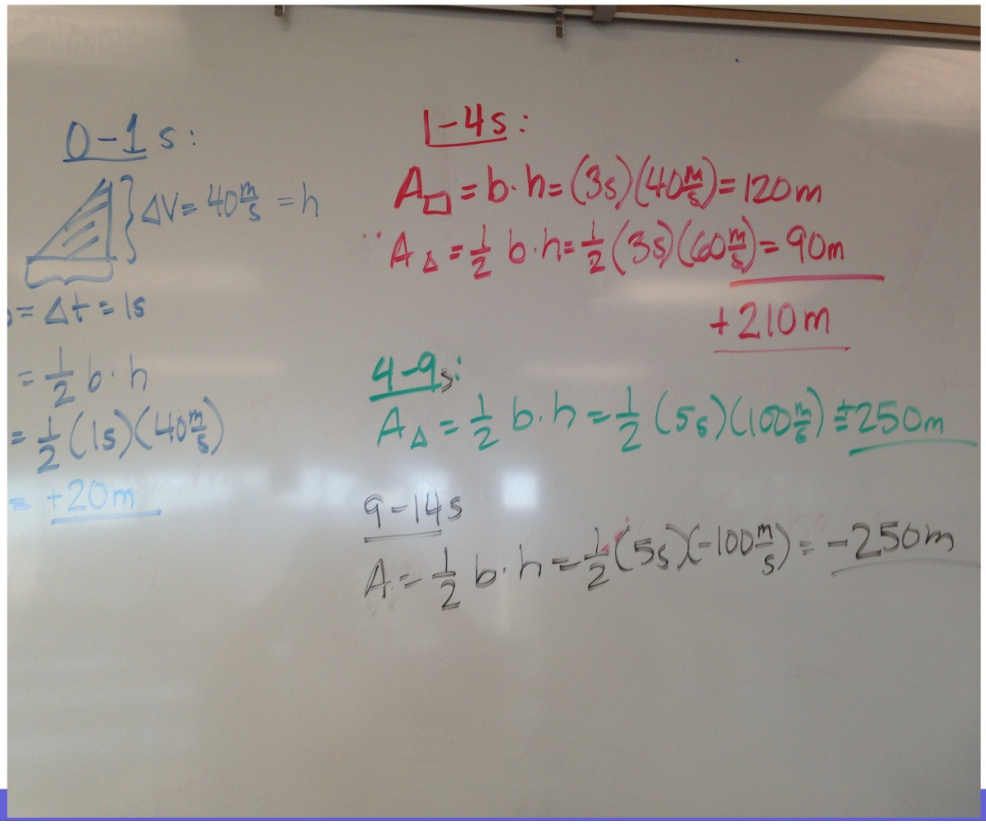
(b) Particle model of motion

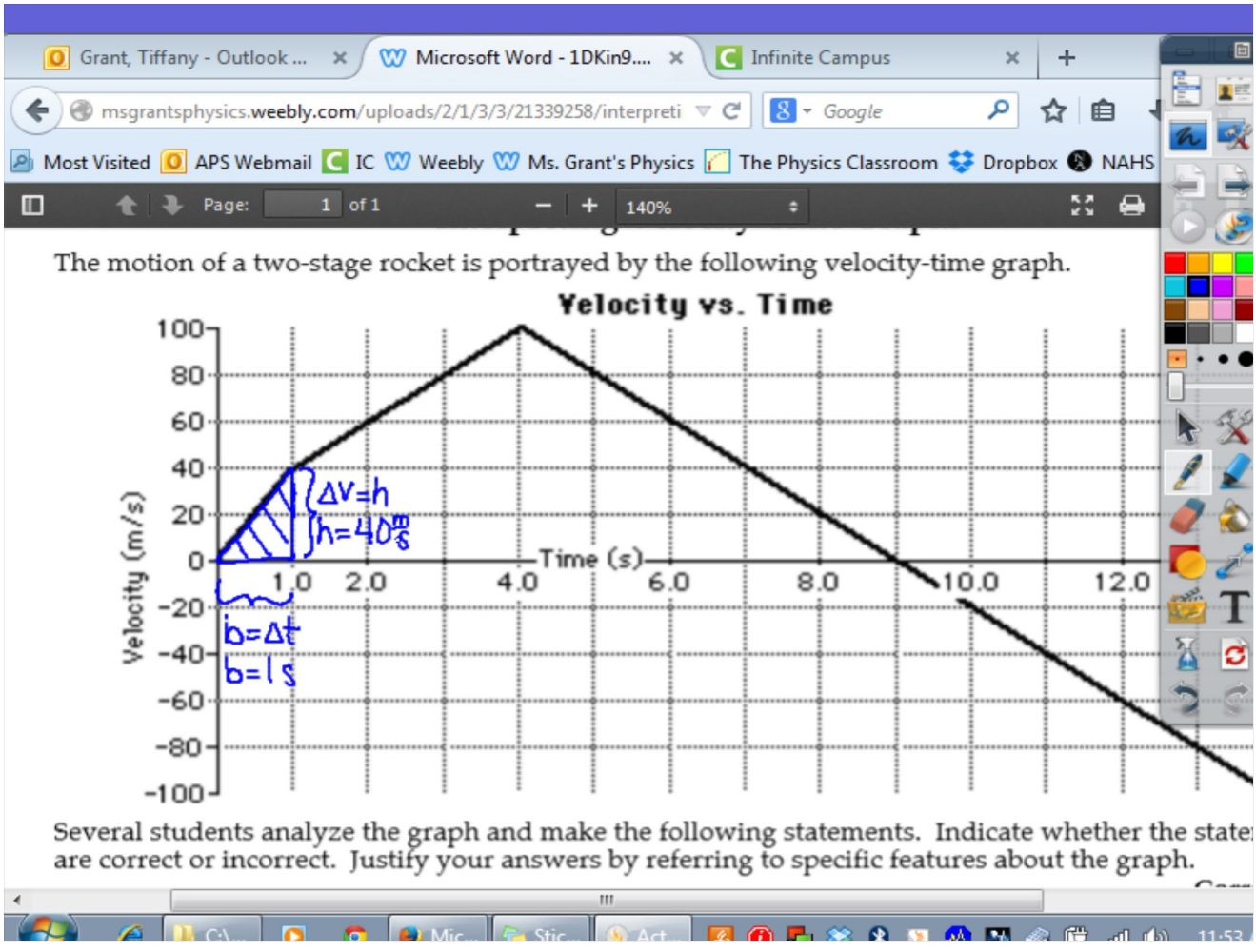



(c) Acceleration calculations



## (d) Displacement calculations



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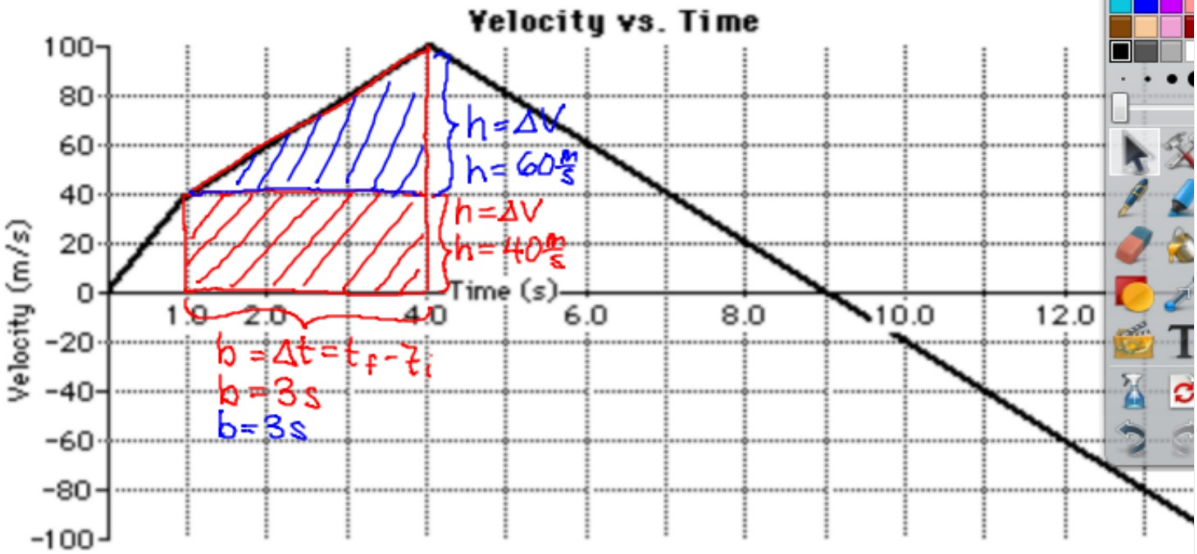


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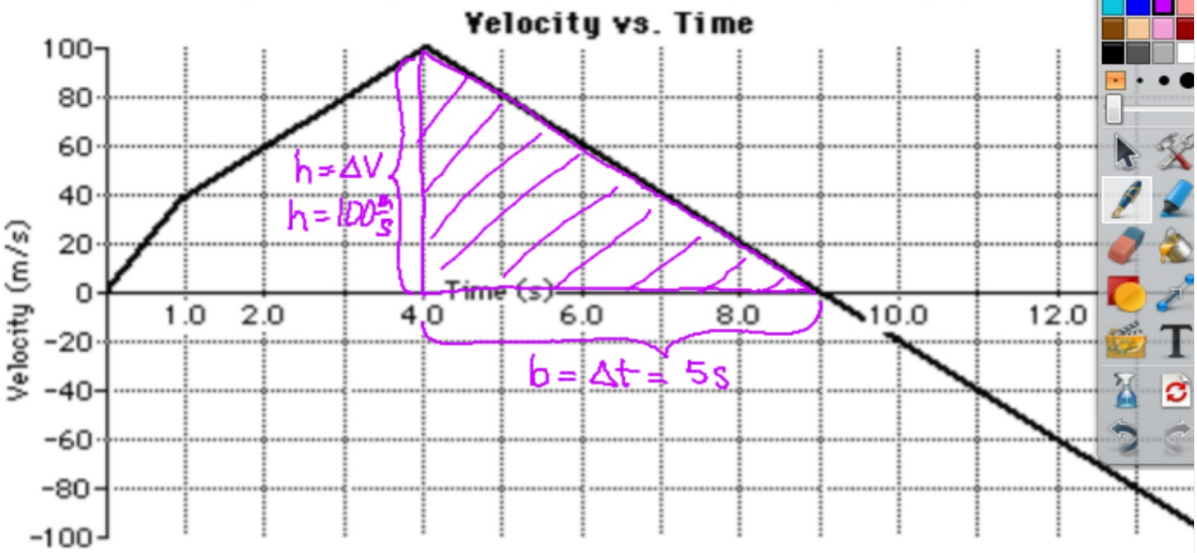


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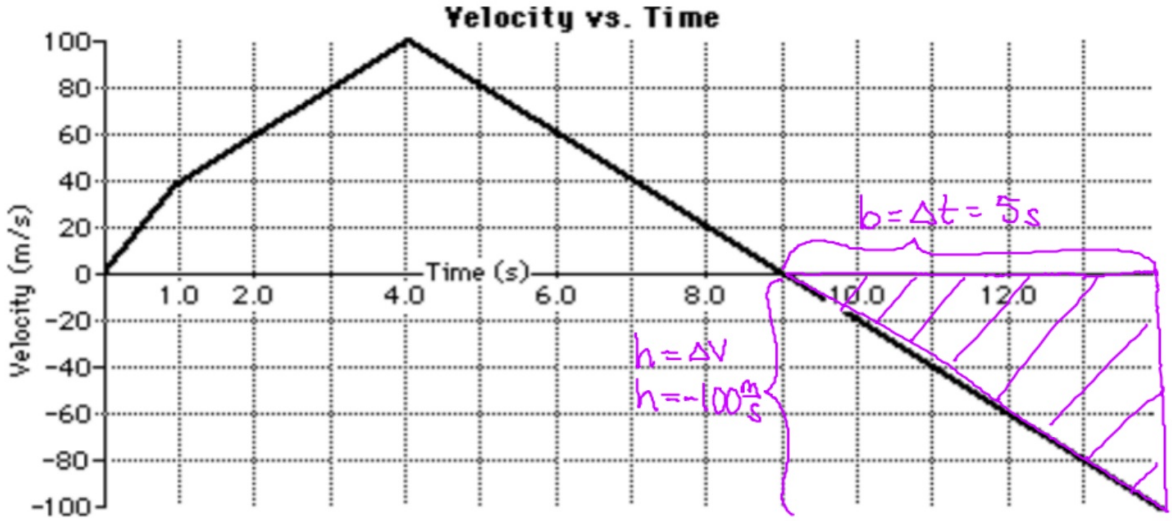


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**Correct?**